

Abstract

1 The object of this invention is to provide a method by which to
form molecule recognizing films on sensor electrodes efficiently,
5 within a short period, uniformly and in a high quality state. Another
object of this invention is to provide a method by which to accurately
introduce a vast number of biological samples for evaluation to the
plural minute sensor electrode dots within a short period and
efficiently.

10 In order to form organic thin films on electrodes, a solution of
a material for the organic thin film is accurately printed via an
ink-jet onto the surface of microelectrodes as required, thereby
producing a high density array of microelectrodes. Further, a solution
of a sample substance or a liquid substance to be sensed is ejected
15 into air via an ink-jet nozzle to fall to the surface of organic thin
membranes on the microelectrodes so that the sample is evaluated.